

FIG. I

FIG. 2A

		TAG	ATTTTACGTTTCGGAATGCAGTCTGAAACCGCATTC	CGCACCACAAGGA	CTTACG	
1	ATGAAACTGAAACAGATTGCCCTCCGCACTGATGATGTTGGGCATATCGCCCTTTGGCATTTGCCGACTTCACCATC					25
76	M K L K Q I A S A L M M L G I S P L A F A \blacktriangle F T I					
	CAAGACATCCGTGTGGAAGGCTTGACGCGTACCGAGCCGAGCACCGTATTCAACTACCTGCCCCGTCAAAGTCGGC					50
	Q D I R V E G L Q R T E P S T V F N Y L P V K V G					
151	GACACCTACAAACGACACACACGGCAGTGCCCATCATCAAAAGCCTGTACGCCACCGGTTTCTTTGACGACGTACGA					75
	D T Y N D T H G S A I I K S L Y A T G F F D D V R					
226	GTCGAAACTGCGGACGGGCTGCTTCTGTGACCGGTTATCGTATGCCCTACCATCGGCTCGCTCAACATCACCGGC					100
	V E T A D G L L L L T V I V C P T I G S L N I T G					
301	GCCAAATGCTGCAGAACGACGCCATCAAGAAACCTCGAATCGTTGGGGTGGCGCAGTCGCAATACCTTTAAT					125
	A K M L Q N D A I K K N L E S F G L A Q S Q Y F N					
376	CAGGCGACACTCAACAGGCGAGTCGCGGCTGAAAGAAAGTATCTCGGGCGGGCAAACTCAATATCCAAATC					150
	Q A T L N Q A V A G L K E E Y L G R G K L N I Q I					
451	ACGCCAAAGTAACCAAACTCGCCCGCAACCGCGTCGACATCGACATCAGATTGACGAGGGCAAAATCCGGCCAAA					175
	T P K V T K L A R N R V D I D I T I D E G K S A K					
526	ATCACCAGACATCGAATTTGAAGGCAACCAAGTCTATTCCGACCGCAAACTGATCGGCGCAGATGTCGCTGACCCGAA					200
	I T D I E F E G N Q V Y S D R K L M R Q M S L T E					
601	GGCGGCATTTGGACATGGCTGACACGAAGCAGCGGTTTCGACCGCCAGAAATTCGCCCAAGACATGGAAAGTA					225
	G G I W T W L T R S D R F D R Q K F A Q D M E K V					
676	ACCGACTTCTACCAGAACAAACGGCTACTTCGATTTCCGTATCCTCGATACCGACATCCAAACCAACGAACAAA					250
	T D F Y Q N N G Y F D F R I L D T D I Q T N E D K					
751	ACCAGGAGACCATCAAAATCACCGTCCACGAAGCGGACGTTTCCGCTGGGGCAAGTGTCTGATTGAAGCGGAC					275
	T R Q T I K I T V H E G G R F R W G K V S I E G D					
826	ACCAACGAAGTCCCCAAGGCCGAACCTGGAATACTGCTGACCATGAAGCCCGGCAAAATGTTACGAACGCCAGCAG					300
	T N E V P K A E L E K L L T M K P G K W Y E R Q Q					
901	ATGACCGCCGTTTTTGGGTGAGATTTCAGAACCGCATGGGCTCGGACGGCTACGCATACAGCGAAATCAGCGTACAG					325
	M T A V L G E I Q N R M G S A G Y A Y S E I S V Q					

FIG. 2B

976	CCGCTGCCGAACGGCGGAACCAAAACCGTCGATTTCGTCTCTGCACATCGAAACGGGCAGAAAAATCTACGTCAAC	350
1051	P L P N A G T K T V D F V L H I E P G R K I Y V N	
	GAAATCCACATCACCGGCAACAACAACCCGCGACGAAGTCGTGCGCGGAATTGCGCCAATGGAATCCGCG	375
1126	E I H I T G N N K T R D E V V R R E L R Q M E S A	
	CCTTACGACACCTCCAAGCTGCAACGCTCCAAAGAGCGCGTCGAGCTTTTGGGCTACTTCGACAAACGTACAGTTT	400
1201	P Y D T S K L Q R S K E R V E L L G Y F D N V Q F	
	GATGCCGTCCCGCTTGCCGGTACGCCGACAAAAGTCGATTGAACATGAGCCTGACCGAACGTTCCACCGGCTCG	425
1276	D A V P L A G T P D K V D L N M S L T E R S T G S	
	CTCGACTTGAGCGCGGGCTGGGTTCAAGGATACCGGCTTGGTCAATGTCCGCGCGGTATCGCAGGACAACCTGTTC	450
1351	L D L S A G W V Q D T G L V M S A G V S Q D N L F	
	GGTACGGGCAAGTCGGCGCCCTCGCGCCCTCGCGAAGCAAAACCACGCTCAACGGGCTCGCTGTCGTTTACCGAC	475
1426	G T G K S A A L R A S R S K T T L N G S L S F T D	
	CCGTACTTCACGGCAGACGGGGTCAGCCTGGGCTACGATATTACGGAAAAGCCTTCGACCCCGCAAGCATCG	500
1501	P Y F T A D G V S L G Y D I Y G K A F D P R K A S	
	ACCAGCGTCAAAACAATATAAAACCAACCCGCGCGCGGCGTAAGGATGGGTATCCCCGTTACCGAATACGAC	525
1576	T S V K Q Y K T T A G G G V R M G I P V T E Y D	
	CGCGTCAATTTCGGGCTGGCGGGGGAACACCTGACCGTCAACACCTACAACAAGCACCCCAACGCTATGCCGAC	550
1651	R V N F G L A A E H L T V N T Y N K A P K R Y A D	
	TTTATCAAAACAATACGGCAAAACCGACGGCGCAGACGGCAGCTTCAAGGCCCTGCTGTACAAAGGCACGTGCGGC	575
1726	F I K Q Y G K T D G A D G S F K G L L Y K G T V G	
	TGGGGCGCAACAAGACCGACAGCGCCTTATGCCGACGCGCGGCTACCTGACCGCGGTAAATGCCGAAATCGCC	600
1801	W G R N K T D S A L W P T R G Y L T G V N A E I A	
	CTGCCCGGCAGCAAACTGCAATACTACTCCGCCACCCACAACCACTGGTTCTTCCCCCTTAAGCAAAACCTTC	625
1876	L P G S K L Q Y Y S A T H N Q T W F F P L S K T F	
	ACGCTGATGCTCGGCGGCAAGTCGGCATTGCGGGCGGCTACGGCAGAACCAAGAAATCCCCTTCTTTGAAAAC	650
1951	T L M L G G E V G I A G G Y G R T K E I P F F E N	
	TTCTACGGCGGGCCTGGGTTTCGGTGGCGGGCTACGAAAGCGGCACGCTCGGCCCGGAAAGTGTATGACGAATAC	675
	F Y G G G L G S V R G Y E S G T L G P K V Y D E Y	

FIG. 2C

2026	GGCGAAAAATCAGCTACGGGGCAACAAAAAGCCAAACGTCTCCGCCGAGCTGCTCTTCCCGATGCCCGGTGCCG	700
	G E K I S Y G G N K K A N V S A E L L F P M P G A	
2101	AAAGACGCACGCCGTCCGCCCTGAGCCTGTTTGCCGACGCAGCAGCGTGTGGACGGCAGAACCTATACCGCC	725
	K D A R T V R L S L F A D A G S V W D G R T Y T A	
2176	GCCGAAAACGGTAACAACAAATCGGTTTACTCGGAAAAACGGGCATATAATCCACCTTTACCAACGAAATTGCGCTAT	750
	A E N G N N K S V Y S E N A H K S T F T N E L R Y	
2251	TCCGCCGGCGGCTTACCTGGCTCTCGCCTTTGGGCCCGATGAAATTCATCTACGCCCTACCCGCTGAAGAAA	775
	S A G G A V T W L S P L G P M K F I Y A Y P L K K	
2326	AAACCGGAAGACGAAATCCACGCTTCCATTCCAGCTCGGCACGACGTTTAA CCGCAAAATGCCGTCTGAAG	792
	K P E D E I Q R F Q F Q L G T T F	
2399	CCCTTCAGACGGCATTTCGGGGCAACATCCGAAGGAGTTTACC ATG	

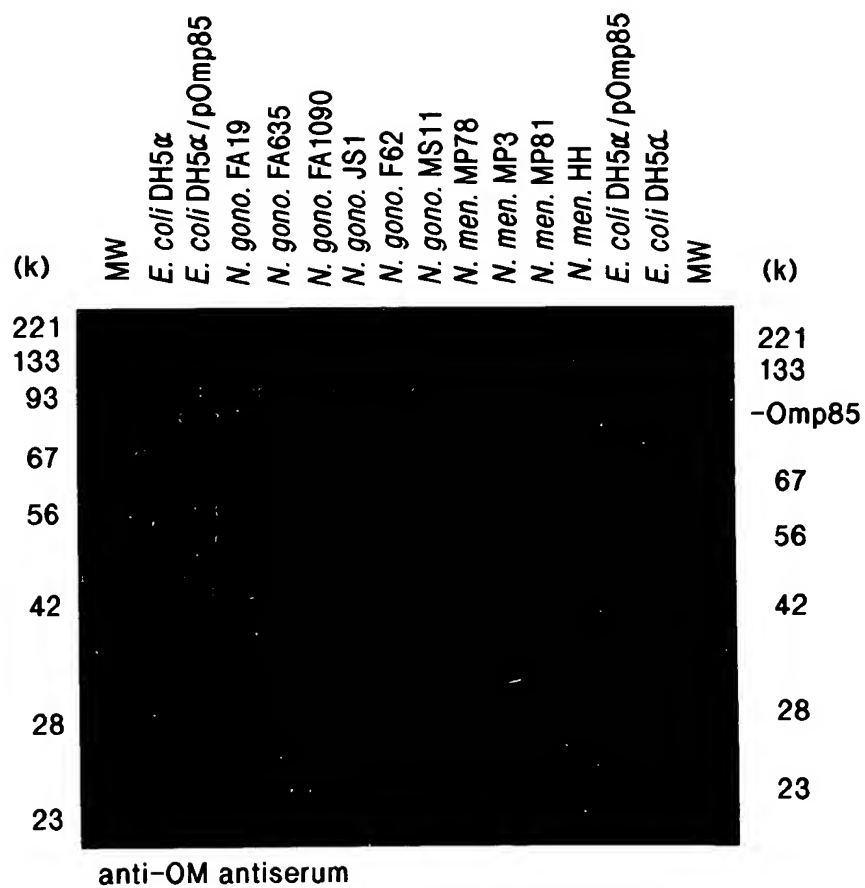


FIG. 3

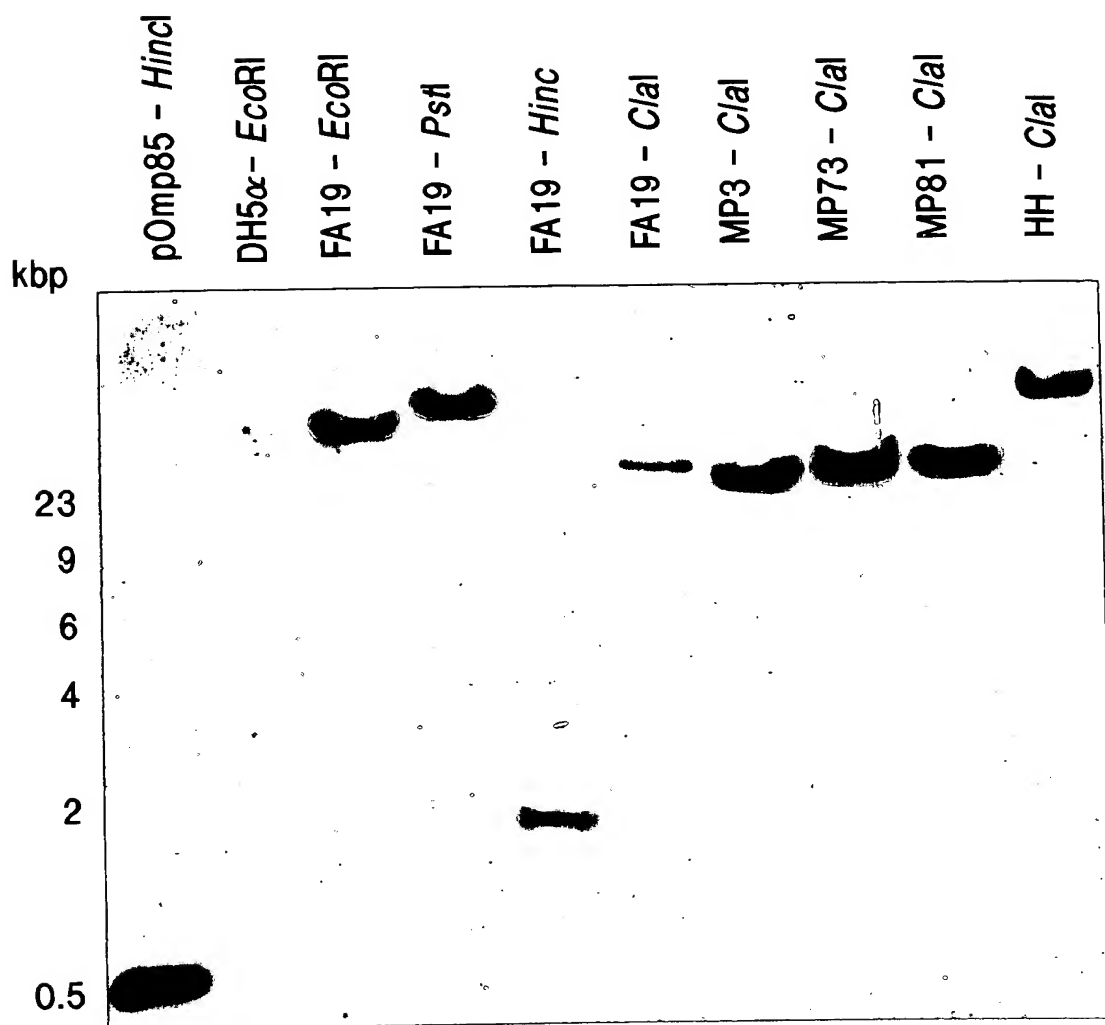


FIG. 4

FIG. 5

MKLKQIASALMMLGISPLAFADFTIQDIRVEGLQRTPESTVFNLPVKVGDTYNDTHGSAIIKSLYATGFFDDVRVETAD 80
GQLLLTVIERPTIGSLNITGAKMLQNDAIKKNLESFGLAQSQYFNQATLNQAVAGLKEEYLGRGKLNIIQITPKVTKLAR 160
L VC
RVDIDITIDEGKSAKITDIEFEGNQVYSDRKLMROMSLTEGGIWTWLTRSNQENEQKFAQDMEKVTDIFYQNNNGYDFDRI 240
DR DR
DTDIQTNEDKTKQTIKITTVEHGGFRFRWGKVSIEGDTNEVPKAELEKLLTMKPGKWYERQQMTAVLGEIQNRMGSAGYAYS 320
R
EISVQPLPNAETKTVDFVLHIEPGRKIYVNEIHITGNNKTRDEVVRRELROMESAPYDTSKLQRSKERVLLGYEDNVQF 400
G
DAVPLAGTPDKVDLNMSLTERSTGSLDLSAGWVQDTGLVMSAGVSQDNLFCTGKSAALRASRSKTTLNGSLSFSTDPPYETA 480
DGVSLGYDVYGKAFDPRKASTSIKQYKTTTAGAGIRMSVPVTEYDRVNFGLVAEHLTVNTYNKAPKHYADFIKKYGKTDG 560
I V G V GI A R Q
TDGSFKGWLYKGTVGWGRNKTDSALWPTRGYLTGVNAEIALPGSKLQYYSATHNQTWFFPLSKFTTLMLGGEVGIAGGYG 640
A L
RTKEIPFFENFYGGGLGSVRGYESGTLGPKVYDEYGEKISYGGNKKANVSAELLFPMGAKDARTVRLSLFADAGSVWDG 720
KTYDDNSSSATGGRVQNIYGAGNTHKSTFTNELRYSAGGAVTWLSPLGPMKFRYAYPLKKKPEDEIQRFOQLGTTF 797
R ***TAAEN NN*KSV *SE A
I

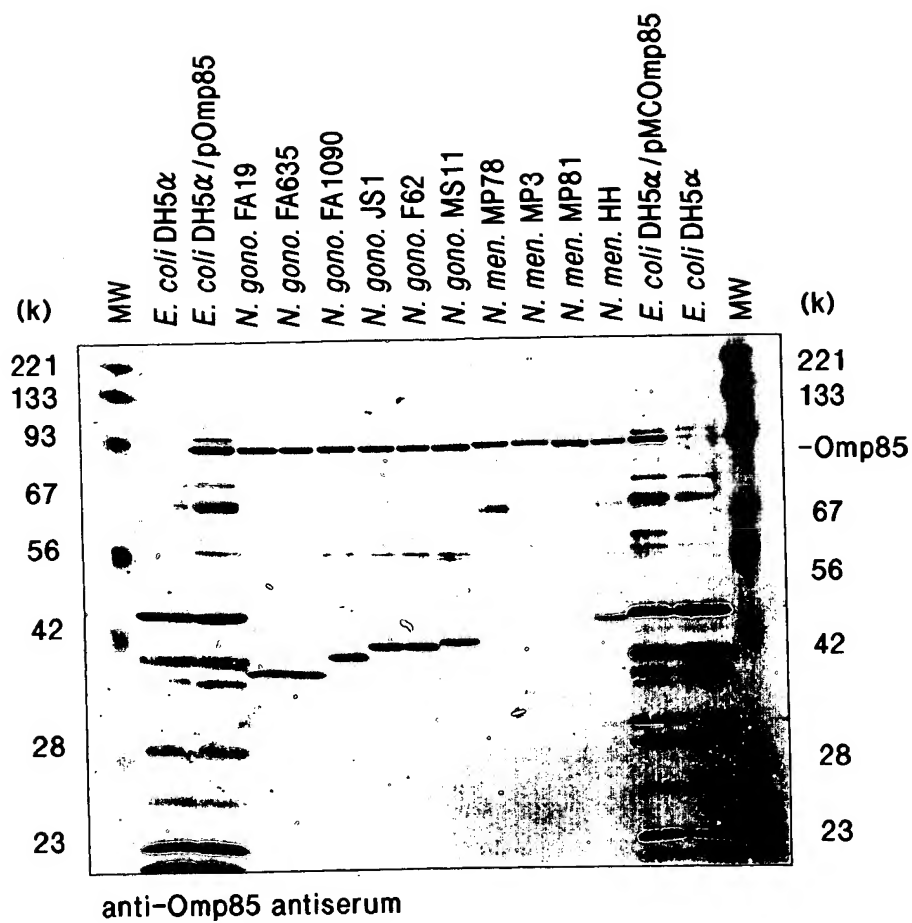
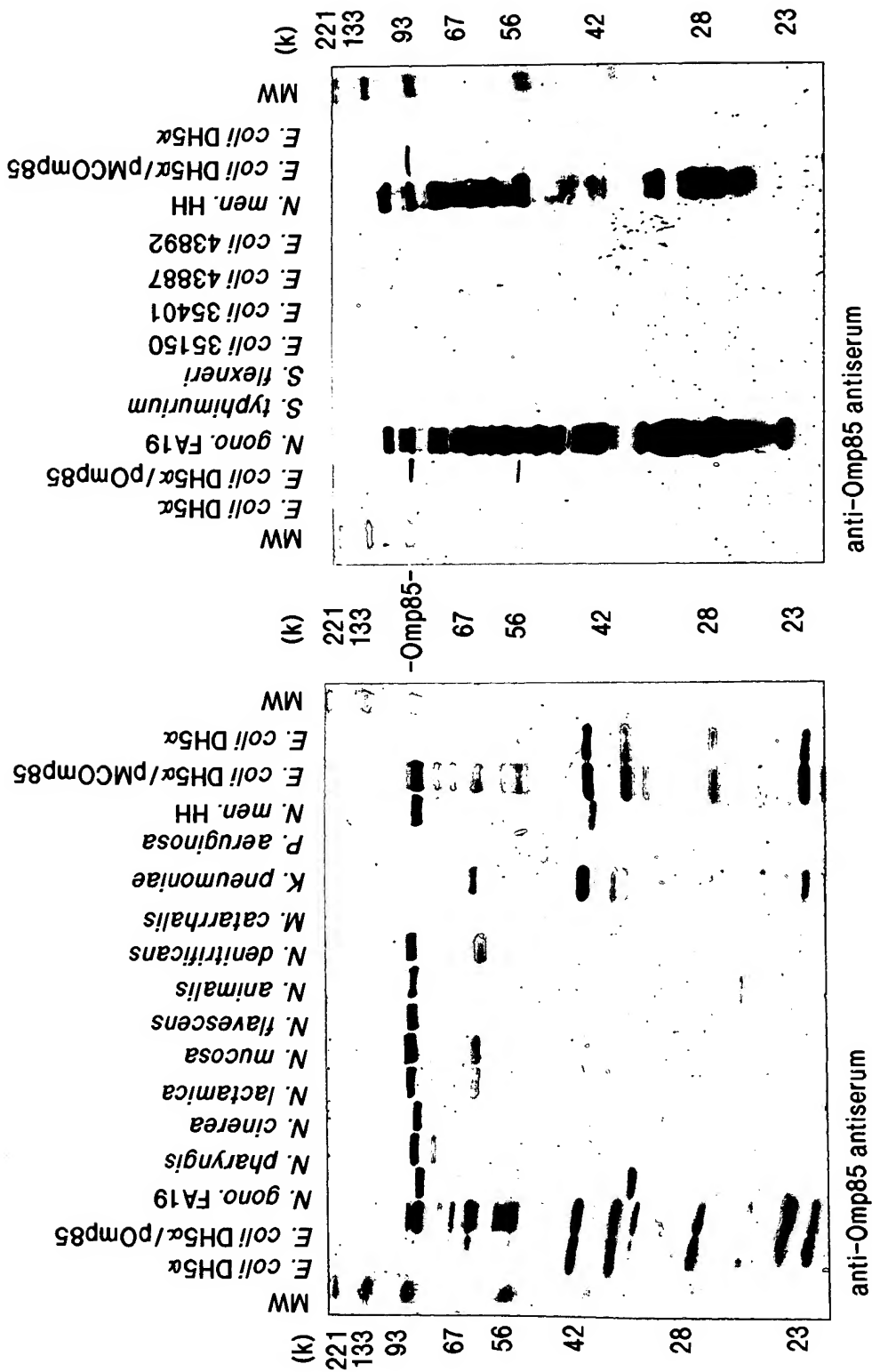


FIG. 6



Gonococcal Cell Adherence Assay

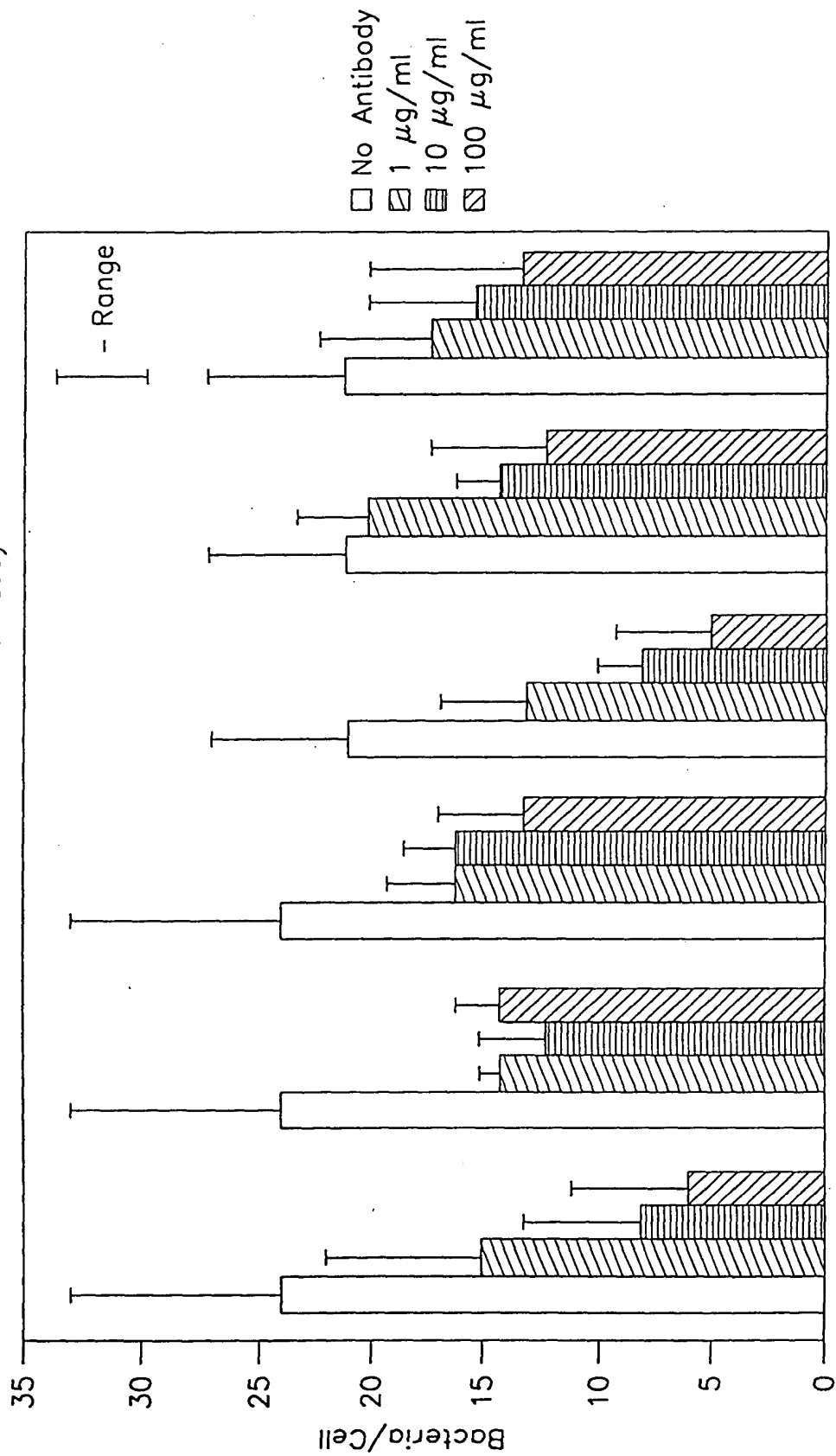


FIG. 8

Fab Fragments of Antisera